

| Result No. | Score | Query # |      | Length | DB                | ID | Description       |
|------------|-------|---------|------|--------|-------------------|----|-------------------|
|            |       | Match   |      |        |                   |    |                   |
| 1          | 111.2 | 61.1    | 168  | 4      | US-09-351-123-5   |    | Sequence 5, Appl  |
| 2          | 89.6  | 49.2    | 171  | 1      | US-08-217-360-16  |    | Sequence 16, Appl |
| 3          | 86.4  | 47.5    | 129  | 2      | US-08-189-256A-25 |    | Sequence 25, Appl |
| 4          | 86.4  | 47.5    | 129  | 3      | US-09-193-853-25  |    | Sequence 25, Appl |
| 5          | 86    | 47.3    | 140  | 2      | US-08-189-256A-19 |    | Sequence 19, Appl |
| 6          | 86    | 47.3    | 140  | 3      | US-09-193-853-19  |    | Sequence 19, Appl |
| 7          | 86    | 47.3    | 164  | 2      | US-08-189-256A-26 |    | Sequence 26, Appl |
| 8          | 86    | 47.3    | 164  | 3      | US-09-193-853-26  |    | Sequence 26, Appl |
| 9          | 85.8  | 47.1    | 127  | 4      | US-09-635-132-16  |    | Sequence 16, Appl |
| 10         | 85.8  | 47.1    | 201  | 4      | US-09-011-336-58  |    | Sequence 58, Appl |
| 11         | 85.4  | 46.3    | 161  | 2      | US-08-189-256A-18 |    | Sequence 18, Appl |
| 12         | 85.4  | 46.9    | 161  | 3      | US-09-193-853-18  |    | Sequence 18, Appl |
| 13         | 85.4  | 46.9    | 165  | 2      | US-08-189-256A-4  |    | Sequence 4, Appl  |
| 14         | 85.4  | 46.9    | 165  | 3      | US-09-193-853-4   |    | Sequence 4, Appl  |
| 15         | 85.4  | 46.9    | 168  | 2      | US-08-189-256A-2  |    | Sequence 2, Appl  |
| 16         | 85.4  | 46.9    | 168  | 3      | US-09-193-853-2   |    | Sequence 2, Appl  |
| 17         | 85.4  | 46.9    | 184  | 3      | US-09-283-419-3   |    | Sequence 3, Appl  |
| 18         | 85.4  | 46.9    | 258  | 2      | US-08-189-256A-24 |    | Sequence 24, Appl |
| 19         | 85.4  | 46.9    | 258  | 3      | US-09-193-853-24  |    | Sequence 24, Appl |
| 20         | 85.4  | 46.9    | 300  | 3      | US-09-202-316-4   |    | Sequence 4, Appl  |
| 21         | 85.4  | 46.9    | 300  | 3      | US-09-202-316-7   |    | Sequence 7, Appl  |
| C 22       | 85.4  | 46.9    | 1134 | 2      | US-08-189-256A-10 |    | Sequence 10, Appl |
| C 23       | 85.4  | 46.9    | 1134 | 3      | US-09-193-853-10  |    | Sequence 10, Appl |
| C 24       | 85.4  | 46.9    | 1143 | 3      | US-09-142-114B-6  |    | Sequence 6, Appl  |
| 25         | 85.4  | 46.9    | 1208 | 2      | US-08-189-256A-28 |    | Sequence 28, Appl |
| 26         | 85.4  | 46.9    | 1208 | 3      | US-09-193-853-28  |    | Sequence 28, Appl |
| 27         | 85.4  | 46.9    | 1416 | 2      | US-08-189-256A-27 |    | Sequence 27, Appl |







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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE: 01-MAY-1990
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 129 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-09-193-853-25

Query Match 47.5%; Score 86.4; DB 3; Length 129;
Best Local Similarity 89.4%; Pred. No. 3.3e-20;
Matches 93; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGAGAGCTCGTGGGATTGACGTGAGGGG 66
Db 6 GCTCCCCCGCGTTCATGAGATGAGAGCTCGTGGGATTGACGTGAGGGG 65

QY 67 CAGGGATGGCTATATTTCTGGGAGGAGACACACCGTTTCC 110
Db 66 CAGGGATGGCTATATTTCTGGGAGGAGACTCCGGCGGAATTTC 109

RESULT 5
US-08-189-256A-19
; Sequence 19, Application US/08/189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE: 01-MAY-1990
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 140 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-189-256A-19

Query Match 47.3%; Score 86; DB 2; Length 140;
Best Local Similarity 90.2%; Pred. No. 4.7e-20;
Matches 92; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGAGAGCTCGTGGGATTGACGTGAGGGG 66
Db 17 GCTCCCCCGCGTTCATGAGATGAGAGCTCGTGGGATTGACGTGAGGGG 76

QY 67 CAGGGATGGCTATATTTCTGGGAGGAGACACACCGTTTTC 108
Db 77 CAGGGATGGCTATATTTCTGGGAGGAGACTCCGGCGGAATTTC 118

RESULT 6
US-09-193-853-19
; Sequence 19, Application US/09/193853
; Patent No. 6388168
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/518,763
; FILING DATE: 01-MAY-1990
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; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-189-256A-26

Query Match 47.3%; Score 86; DB 2; Length 164;
Best Local Similarity 90.2%; Pred.No. 5e-20;
Matches 92; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 7 GCTCCCCCGCGTCGTTCAATGAGAAATGGATAAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 6 GCTCCCCCGCGTCGTTCAATGAGAAATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 65

Qy 67 CAGGATGGCTATATTTCTGGGAGGAGACACAAACGGTTTC 108
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 66 CAGGATGGCTATATTTCTGGGAGCGAACTCCGGCGCAATTC 107

RESULT 8
US-09-193-853-26
; Sequence 26, Application US/09193853
; Patent No. 6388168
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrier, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-193-853-26

Query Match          47.3%; Score 86; DB 3; Length 164;
Best Local Similarity 90.2%; Pred. No. 5e-20;
Matches 92; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 7 GCTCCCGCCGCGTTCATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 66
   |||||
Db 6 GCTCCCGCCGCGTTCATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 65
   |||||

QY 67 CAGGGATGGCTATATTTCTGGGAGGAGACCAACACGGTTTC 108
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Db 66 CAGGGATGGCTATATTTCTGGGAGGAGAACTCCGGCGGAATTC 107
   |||||

RESULT 9
US-09-635-132-16
; Sequence 16, Application US/09635132
; Patent No. 6620601
; GENERAL INFORMATION:
; APPLICANT: YAMAGUCHI, ISAMU
; APPLICANT: NAKASHITA, HIDEO
; APPLICANT: YOSHIOKA, KEIKO
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: METHODS FOR TRANSFORMATION OF PLANTS, TRANSFORMED
; TITLE OF INVENTION: PLANTS AND PROCESSES FOR PREPARATION OF POLYESTERS
; FILE REFERENCE: 081356/0148
; CURRENT APPLICATION NUMBER: US/09/635,132
; CURRENT FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: JP 11-225832
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: JP 11-225839
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 16
; LENGTH: 127
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-09-635-132-16

Query Match          47.1%; Score 85.8; DB 4; Length 127;
Best Local Similarity 97.8%; Pred. No. 5.2e-20;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCGCCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 64
   |||||
Db 11 TTGCTCTCCCGCCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 70
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QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
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Db 71 GGCAGGGATGGCTATATTTCTGGGAGCGA 99
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RESULT 10
US-09-011-336-58
; Sequence 58, Application US/09011336
; Patent No. 6472586
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Allison, Lori A.
; APPLICANT: Haeudukiewicz, Peter T.
; TITLE OF INVENTION: Nuclear-Encoded Transcription System in
; TITLE OF INVENTION: Plasmids of Higher Plants
; FILE REFERENCE: Rut-95-08031
; CURRENT APPLICATION NUMBER: US/09/011,336
; CURRENT FILING DATE: 1998-02-10
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; PRIOR APPLICATION NUMBER: PCT/US96/12671
; PRIOR FILING DATE: 1996-08-01
; PRIOR APPLICATION NUMBER: 60/002,136
; PRIOR FILING DATE: 1995-08-10
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 58
; LENGTH: 201
; TYPE: DNA
; ORGANISM: N. tobacco
US-09-011-336-58

Query Match          47.1%; Score 85.8; DB 4; Length 201;
Best Local Similarity 97.8%; Pred. No. 6.4e-20;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCGCCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 64
   |||||
Db 3 TTGCTCTCCCGCCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 62
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QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
   |||||
Db 63 GGCAGGGATGGCTATATTTCTGGGAGCGA 91
   |||||

RESULT 11
US-08-189-256A-18
; Sequence 18, Application US/08189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/111,398
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 161 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-189-256A-18

Query Match          46.9%; Score 85.4; DB 2; Length 161;
Best Local Similarity 98.9%; Pred. No. 7.9e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db 23 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 82

QY 67 CAGGGATGGCTATATTCTCGGAGGGA 93
Db 83 CAGGGATGGCTATATTCTCGGAGGGA 109

RESULT 13
US-08-189-256A-4
; Sequence 4, Application US/08189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carner, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/111,398
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-189-256A-4

Query Match          46.9%; Score 85.4; DB 2; Length 165;
Best Local Similarity 98.9%; Pred. No. 8e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-193-853-18

Query Match          46.9%; Score 85.4; DB 2; Length 161;
Best Local Similarity 98.9%; Pred. No. 7.9e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db 23 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 82

QY 67 CAGGGATGGCTATATTCTCGGAGGGA 93
Db 83 CAGGGATGGCTATATTCTCGGAGGGA 109

RESULT 12
US-09-193-853-18
; Sequence 18, Application US/09193853
; Patent No. 6388168
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carner, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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QY 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66  
Db |||||  
1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60  
QY 67 CAGGGATGGCTATATTTCTGGGAGGA 93  
Db |||||  
61 CAGGGATGGCTATATTTCTGGGAGCGA 87

RESULT 14  
US-09-193-853-4  
; Sequence 4, Application US/09193853  
; Patent No. 6388168  
; GENERAL INFORMATION:  
; APPLICANT: Maliga, Pal  
; APPLICANT: Svab, Zora  
; APPLICANT: Staub, Jeffrey  
; APPLICANT: Zoubenko, Oleg V.  
; APPLICANT: Allison, Lori A.  
; APPLICANT: Carrer, Helaine  
; APPLICANT: Kanevski, Ivan  
; TITLE OF INVENTION: DNA Constructs and Methods for Stably  
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and  
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein  
; NUMBER OF SEQUENCES: 47  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman  
; STREET: 1601 Market Street Suite 720  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103-2307  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/193,853  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/189,256  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/518,763  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reed, Janet E.  
; REGISTRATION NUMBER: 36,252  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 563-4100  
; TELEFAX: (215) 563-4044  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 165 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-09-193-853-4

Query Match 46.9%; Score 85.4; DB 3; Length 165;  
Best Local Similarity 98.9%; Pred. No. 8e-20;  
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66  
Db |||||  
1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60

QY 67 CAGGGATGGCTATATTTCTGGGAGGA 93  
Db |||||  
61 CAGGGATGGCTATATTTCTGGGAGCGA 87

RESULT 15  
US-08-189-256A-2  
; Sequence 2, Application US/08189256A  
; Patent No. 5877402  
; GENERAL INFORMATION:  
; APPLICANT: Maliga, Pal  
; APPLICANT: Svab, Zora  
; APPLICANT: Staub, Jeffrey  
; APPLICANT: Zoubenko, Oleg V.  
; APPLICANT: Allison, Lori A.  
; APPLICANT: Carrer, Helaine  
; APPLICANT: Kanevski, Ivan  
; TITLE OF INVENTION: DNA Constructs and Methods for Stably  
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and  
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein  
; NUMBER OF SEQUENCES: 47  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman  
; STREET: 1601 Market Street Suite 720  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103-2307  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/189,256A  
; FILING DATE: 31-JAN-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/111,398  
; FILING DATE: 25-AUG-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/518,763  
; FILING DATE: 01-MAY-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reed, Janet E.  
; REGISTRATION NUMBER: 36,252  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 563-4100  
; TELEFAX: (215) 563-4044  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 168 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-08-189-256A-2

Query Match 46.9%; Score 85.4; DB 2; Length 168;  
Best Local Similarity 98.9%; Pred. No. 8.1e-20;  
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66  
Db |||||  
1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60  
QY 67 CAGGGATGGCTATATTTCTGGGAGGA 93  
Db |||||  
61 CAGGGATGGCTATATTTCTGGGAGCGA 87



Tue Jan 11 15:29:33 2005

us-09-762-105a-14.rni

Page 8

Search completed: January 6, 2005, 18:36:04  
Job time : 86 secs

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| Qy   | Db   |
|--|--|
| 1  | 1  |
| GAGCTCGTCCCGCCGCGTGGTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTG | GAGCTCGTCCCGCCGCGTGGTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTG |
| 60   | 60   |



|    |     |   |     |
|----|-----|---|-----|
| Qy | 61  | AGGGGACAGGATGCGTATATTTCTGGAGGAGACACAAACGGTTTCCACTAGAAATA    | 120 |
|    |     |   |     |
| Db | 61  | AGGGGACAGGATGCGTATATTTCTGGAGGAAATTAACCGATCGACGTGAAGCGGACATT | 120 |
|    |     |   |     |
| Qy | 121 | ATTTGTTTTAACTTTTAAGAAGGAGATATACATATGG                       | 156 |
|    |     |   |     |
| Db | 121 | TATTTTAAATTCGATAAATTTTTTGCAAAACAACTTCG                      | 156 |
|    |     |   |     |

```

RESULT 2
US-10-473-207-7/c
; Sequence 7, Application US/10473207
; Publication No. US20040163145A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Corneille, Sylvie
; APPLICANT: Lucz, Kerry
; TITLE OF INVENTION: Intergases for the insertion of
; TITLE OF INVENTION: heterologous nucleic acids into the plastid genome
; FILE REFERENCE: 1594-RUT.01-09IUS
; CURRENT APPLICATION NUMBER: US/10/473, 207
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: PCT/US02/09537
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/279615
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 2892
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: donor vector
US-10-473-207-7

```

```
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 130
; TYPE: DNA
; ORGANISM: tobacco
US-10-109-812-1
```

```

RESULT 4
US-10-109-812-4
; Sequence 4, Application US/10109812
; Publication No. US20030088081a1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Corneille, Sylvie
; APPLICANT: Lutz, Kerry
; TITLE OF INVENTION: High Level Expression of Immunogenic Proteins in the
; TITLE OF INVENTION: Plastids of Higher Plants
; FILE REFERENCE: Rutgers-00-0038 CIP
; CURRENT APPLICATION NUMBER: US/10/109,812
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: PCT/US00/25930
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/211,139
; PRIOR FILING DATE: 2000-06-13
; PRIOR APPLICATION NUMBER: 60/155,007
; PRIOR FILING DATE: 1999-09-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 131
; TYPE: DNA
; ORGANISM: tobacco
US-10-109-812-4

```

```

/ APPLICANT: Lutz, Kerry
/ TITLE OF INVENTION: High Level Expression of Immunogenic Proteins in the
/ TITLE OF INVENTION: Plastids of Higher Plants
/ FILE REFERENCE: Rutgers-00-0038 CIP
/ CURRENT APPLICATION NUMBER: US/10/109,812
/ CURRENT FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: PCT/US00/25930
/ PRIOR FILING DATE: 2000-09-21
/ PRIOR APPLICATION NUMBER: 60/211,139
/ PRIOR FILING DATE: 2000-06-13
/ PRIOR APPLICATION NUMBER: 60/155,007
/ PRIOR FILING DATE: 1999-09-21
/ NUMBER OF SEQ ID NOS: 57

```

RESULT 3  
US-10-109-812-1  
1 GAGCTCGCTCCCCCGCGTCGTTCAATGAGNATGATAAGAGGGTCGTGGGATTGACGTG 60  
Db



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; CURRENT FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US/09/524,087A
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: PCT/US97/03444
; PRIOR FILING DATE: 1997-03-06
; PRIOR APPLICATION NUMBER: 60/102,716
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 4586
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-460-716-4

Query Match          49.5%; Score 90; DB 15; Length 4586;
Best Local Similarity 100.0%; Pred. No. 1.5e-18;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCTCGCTCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTG 60
    |||||
Db 3720 GAGCTCGCTCCCGCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTG 3661

QY 61 AGGGGGCAGGATGGCTATATTTCTGGGAG 90
    |||||
Db 3660 AGGGGGCAGGATGGCTATATTTCTGGGAG 3631

RESULT 6
US-10-473-207-4/c
; Sequence 4, Application US/10473207
; Publication No. US20040163145A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Cornelle, Sylvie
; TITLE OF INVENTION: Integrases for the insertion of
; TITLE OF INVENTION: heterologous nucleic acids into the plastid genome
; FILE REFERENCE: 1594-RUT.01-091US
; CURRENT APPLICATION NUMBER: US/10/473,207
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: PCT/US02/09537
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/279615
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 1544
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: vector insert
US-10-473-207-4

Query Match          47.8%; Score 87; DB 17; Length 1544;
Best Local Similarity 90.3%; Pred. No. 9.1e-18;
Matches 93; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 6 CGCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 65
    |||||
Db 1394 CGCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 1335

QY 66 GCAGGGATGGCTATATTTCTGGGAGGAGACCAACGGTTTC 108
    |||||
Db 1334 GCAGGGATGGCTATATTTCTGGGAGGAGAACTCCGGGCGAATTC 1292

RESULT 7
US-10-473-207-25
; Sequence 25, Application US/10473207
```

```
; Publication No. US20040163145A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Cornelle, Sylvie
; APPLICANT: Lutz, Kerry
; TITLE OF INVENTION: Integrases for the insertion of
; TITLE OF INVENTION: heterologous nucleic acids into the plastid genome
; FILE REFERENCE: 1594-RUT.01-091US
; CURRENT APPLICATION NUMBER: US/10/473,207
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: PCT/US02/09537
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/279615
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 2391
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid fragment
US-10-473-207-25

Query Match          47.8%; Score 87; DB 17; Length 2391;
Best Local Similarity 90.3%; Pred. No. 1.1e-17;
Matches 93; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 6 CGCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 65
    |||||
Db 12 CGCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 71

QY 66 GCAGGGATGGCTATATTTCTGGGAGGAGACCAACGGTTTC 108
    |||||
Db 72 GCAGGGATGGCTATATTTCTGGGAGGCGAACTCCGGGCGAATTC 114

RESULT 8
US-10-737-251-1
; Sequence 1, Application US/10737251
; Publication No. US20040221338A1
; GENERAL INFORMATION:
; APPLICANT: Pal Maliga
; APPLICANT: Jon Y. Suzuki
; TITLE OF INVENTION: Plastid rRNA Operon PromoterElements for
; TITLE OF INVENTION: Construction of Chimeric Promoters for Transgene Expression
; FILE REFERENCE: 1594 RUT 03-083US
; CURRENT APPLICATION NUMBER: US/10/737,251
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: 60/433,302
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 179
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-10-737-251-1

Query Match          47.1%; Score 85.8; DB 18; Length 179;
Best Local Similarity 97.8%; Pred. No. 9.8e-18;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 64
    |||||
Db 91 TTCTCTCCCCCGCGCTCGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 150

QY 65 GCAGGGATGGCTATATTTCTGGGAGGGA 93
    |||||
Db 151 GCAGGGATGGCTATATTTCTGGGAGCGA 179

RESULT 9
```



```
US-10-095-514-3
; Sequence 3, Application US/10095514
; Publication No. US20040093638A1
; GENERAL INFORMATION:
; APPLICANT: Sasaki, Yukiko
; APPLICANT: Sasaki, Yukiko
; APPLICANT: Madoka, Yuka
; TITLE OF INVENTION: Method for Promoting Fatty Acid Synthesis in a Plant
; FILE REFERENCE: 026350-072
; CURRENT APPLICATION NUMBER: US/10/095,514
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: JP 2001-70,691
; PRIOR FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: JP 2001-300,038
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 220
; TYPE: DNA
; ORGANISM: N. tabacum cv. Xanthi
US-10-095-514-3

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 16; Length 220;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 64
DB 28 TTGCTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 87
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
DB 88 GGCAGGGATGGCTATATTTCTGGGAGGGA 116

RESULT 10
US-10-737-251-38
; Sequence 38, Application US/10737251
; Publication No. US20040221338A1
; GENERAL INFORMATION:
; APPLICANT: Pal Maliga
; APPLICANT: Jon Y. Suzuki
; TITLE OF INVENTION: Plasmid rRNA Operon Promoter-Elements for
; FILE REFERENCE: 1594 RUT 03-083US
; CURRENT APPLICATION NUMBER: US/10/737,251
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: 60/433,302
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 233
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-10-737-251-38

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 18; Length 233;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 64
DB 32 TTGCTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 91
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
DB 92 GGCAGGGATGGCTATATTTCTGGGAGGGA 120

RESULT 11
US-10-377-134-63/c
; Sequence 63, Application US/10377134
; Publication No. US20040096938A1
; GENERAL INFORMATION:
; APPLICANT: XU, Ming-Qun
; APPLICANT: EVANS, Thomas C.
; APPLICANT: PRADHAN, Sriharsa
; APPLICANT: COMB, Donald G.
; APPLICANT: PAULUS, Henry
; APPLICANT: SUN, Luo
; APPLICANT: CHEN, Lixin
; APPLICANT: GHOSH, Inca
; TITLE OF INVENTION: METHOD FOR GENERATING SPLIT, NON-TRANSFERABLE GENES
; FILE REFERENCE: NEB-219
; CURRENT APPLICATION NUMBER: US/10/377,134
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: 09/936,588
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: PCT/US00/14122
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/135,677
; PRIOR FILING DATE: 1999-05-24
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 63
; LENGTH: 6477
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Nucleotides 1-2482: E. coli vector pLITMUS28 (New
; OTHER INFORMATION: England Biolabs, Inc.)
; FEATURE:
; OTHER INFORMATION: Nucleotides 2493-6242: Nicotiana tabacum
; OTHER INFORMATION: Nucleotides 6243-8477: E. coli vector pLITMUS28
; OTHER INFORMATION: (New England Biolabs, Inc.)
US-10-377-134-63

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 16; Length 6477;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 64
DB 4016 TTGCTCCCCCGCGTTCATGAGATGAGAGGCTCGTGGGATTCACGTGAGGG 3957
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
DB 3956 GGCAGGGATGGCTATATTTCTGGGAGGGA 3928

RESULT 12
US-10-680-824A-1/c
; Sequence 1, Application US/10680824A
; Publication No. US20040133937A1
; GENERAL INFORMATION:
; APPLICANT: Boudreau, Eric
; APPLICANT: Gu, Weining
; APPLICANT: De Framond, Anic
; APPLICANT: Heifetz, Peter
; TITLE OF INVENTION: Plasmid Transformation
; FILE REFERENCE: 70149USNP
; CURRENT APPLICATION NUMBER: US/10/680,824A
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: 60/418596
; PRIOR FILING DATE: 2002-07-10
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 7652
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
```



```
; OTHER INFORMATION: pEBPOT plastid transformation vector (Example 1 VII).
US-10-680-824A-1

Query Match          47.1%; Score 85.8; DB 17; Length 7652;
Best Local Similarity 97.8%; Pred. No. 4.1e-17;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 64
Db 6646 TTGCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 6587

QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
Db 6586 GGCAGGGATGGCTATATTTCTGGGAGGGA 6558

RESULT 13
US-10-680-824A-2
; Sequence 2, Application US/10680824A
; Publication No. US20040133937A1
; GENERAL INFORMATION:
; APPLICANT: Boudreau, Eric
; APPLICANT: Gu, Weining
; APPLICANT: De Framond, Anic
; APPLICANT: Heifetz, Peter
; TITLE OF INVENTION: Plastid Transformation
; FILE REFERENCE: 70149USNP
; CURRENT APPLICATION NUMBER: US/10/680,824A
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: 60/418596
; PRIOR FILING DATE: 2002-07-10
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 8684
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pEB8 (= pEB8a) plastid transformation vector (Example 2).
US-10-680-824A-2

* Query Match          47.1%; Score 85.8; DB 17; Length 8684;
Best Local Similarity 97.8%; Pred. No. 4.3e-17;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 64
Db 2490 TTGCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 2549

QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
Db 2550 GGCAGGGATGGCTATATTTCTGGGAGGGA 2578

RESULT 14
US-10-680-824A-19
; Sequence 19, Application US/10680824A
; Publication No. US20040133937A1
; GENERAL INFORMATION:
; APPLICANT: Boudreau, Eric
; APPLICANT: Gu, Weining
; APPLICANT: De Framond, Anic
; APPLICANT: Heifetz, Peter
; TITLE OF INVENTION: Plastid Transformation
; FILE REFERENCE: 70149USNP
; CURRENT APPLICATION NUMBER: US/10/680,824A
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: 60/418596
; PRIOR FILING DATE: 2002-07-10
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 10011
```

```
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: plasmid pEB10
US-10-680-824A-19

Query Match          47.1%; Score 85.8; DB 17; Length 10011;
Best Local Similarity 97.8%; Pred. No. 4.6e-17;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 64
Db 4370 TTGCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 4429

QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
Db 4430 GGCAGGGATGGCTATATTTCTGGGAGGGA 4458

RESULT 15
US-10-460-716-2/c
; Sequence 2, Application US/10460716
; Publication No. US20030200568A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Skarjinskaia, Marina
; APPLICANT: Svab, Zora
; APPLICANT: Rutgers, The State University of New Jersey
; TITLE OF INVENTION: Plastid Transformation in Lesquerella
; TITLE OF INVENTION: Fendleri, an Oilseed Brassicaceae
; FILE REFERENCE: Rut 00-0109CIP
; CURRENT APPLICATION NUMBER: US/10/460,716
; CURRENT FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US/09/524,087A
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: PCT/US97/03444
; PRIOR FILING DATE: 1997-03-06
; PRIOR APPLICATION NUMBER: 60/102,716
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1143
; TYPE: DNA
; ORGANISM: Nicotinium tobacum
US-10-460-716-2

Query Match          46.9%; Score 85.4; DB 15; Length 1143;
Best Local Similarity 98.9%; Pred. No. 2.7e-17;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 66
Db 1130 GCTCTCCCGCCGCTGTTCAATGAGAAATGAGTAAGGCTCGTGGATTGACGTGAGGG 1071

QY 67 CAGGGATGGCTATATTTCTGGGAGGGA 93
Db 1070 CAGGGATGGCTATATTTCTGGGAGGGA 1044

Search completed: January 6, 2005, 19:50:39
Job time : 426 secs
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